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L2	699	("224" or "225") near6 insert	USPAT	OR	OFF	2006/02/09 15:38
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L7 ANSWER 1 OF 1 MEDLINE on STN

DUPLICATE 1

AN 88122641 MEDLINE

DN PubMed ID: 2893291

TI Novel precursor of Alzheimer's disease amyloid protein shows protease

inhibitory activity.

AU Kitaguchi N; Takahashi Y; Tokushima Y; Shiojiri S; Ito H

CS Life Science Research Laboratories, Asahi Chemical Industry Co. Ltd.,

Shizuoka, Japan.

SO Nature, (1988 Feb 11) 331 (6156) 530-2. Journal code: 0410462. ISSN: 0028-0836.

CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

OS GENBANK-X06981

EM 198803

ED Entered STN: 19900308

Last Updated on STN: 19980206

Entered Medline: 19880317

AB Alzheimer's disease is characterized by cerebral deposits of amyloid

beta-protein (AP) as senile plaque core and vascular amyloid, and a

complementary DNA encoding a precursor of this protein (APP) has been

cloned from human brain. From a cDNA library of a human glioblastoma cell

line, we have isolated a cDNA identical to that previously reported,

together with a new cDNA which contains a 225-nucleotide insert. The sequence of the 56 amino acids at the N-terminal of the protein deduced from this insert is highly homologous to the basic trypsin inhibitor family, and the lysate from COS-1 cells transfected with the longer APP cDNA showed an increased

inhibition of

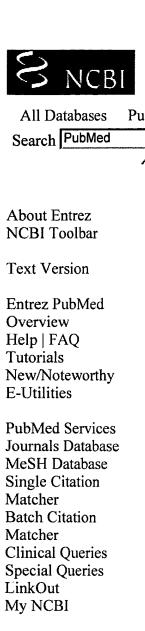
trypsin activity. Partial sequencing of the genomic DNA encoding APP

showed that the 225 nucleotides are located in two exons. At least three

messenger RNA species, apparently transcribed from a single APP gene by

alternative splicing, were found in human brain. We suggest that protease

inhibition by the longer APP(s) could be related to aberrant APP catabolism.



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